

COMNAVSAFEEN

2004 Aviation Maintenance Safety Conference



ASEMICAP EMI/ESD

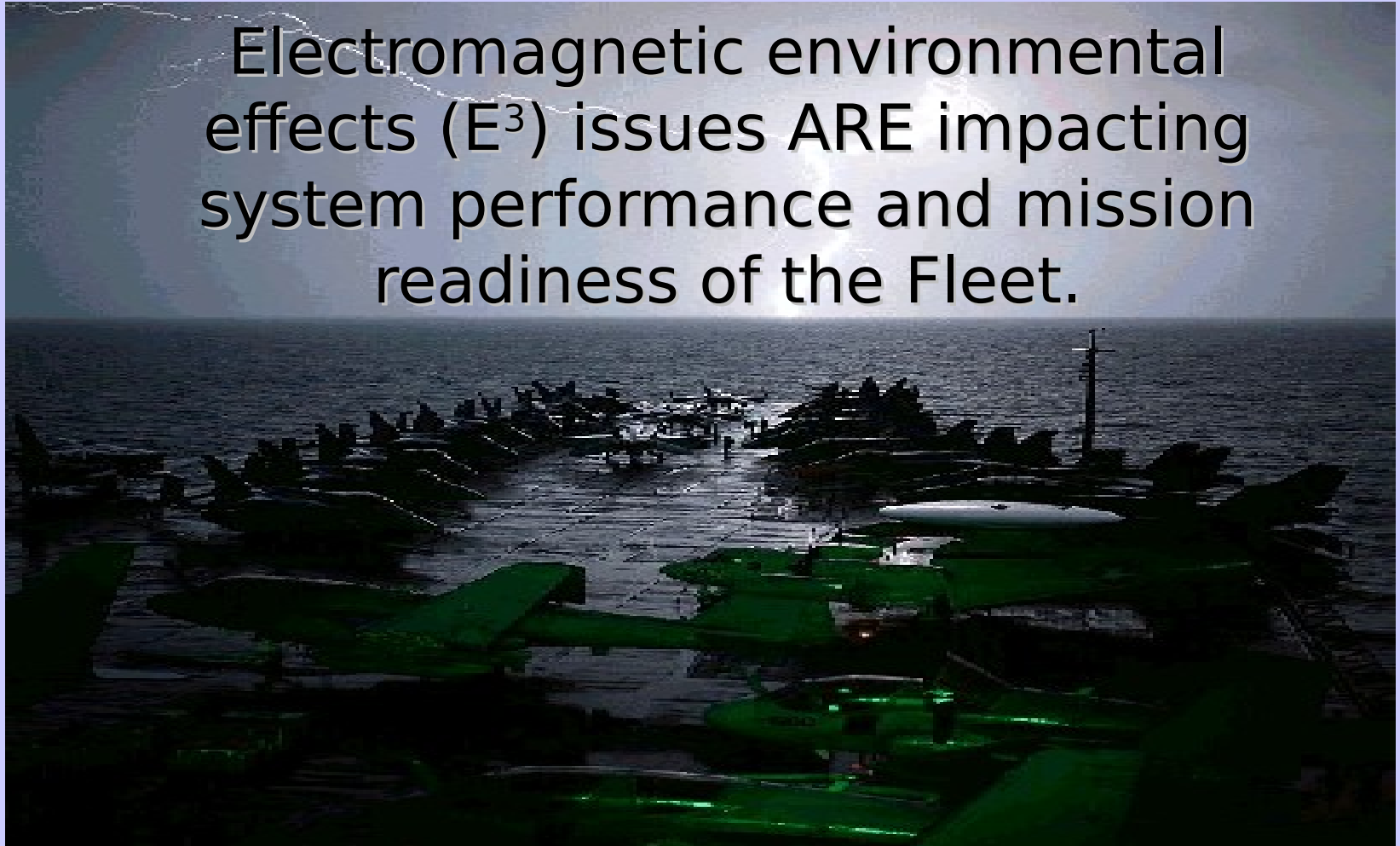
Mr. Wayne Blanks
Air Systems EMI
Corrective Action
Program
(ASEMICAP)



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What's the Issue?

Electromagnetic environmental effects (E³) issues ARE impacting system performance and mission readiness of the Fleet.



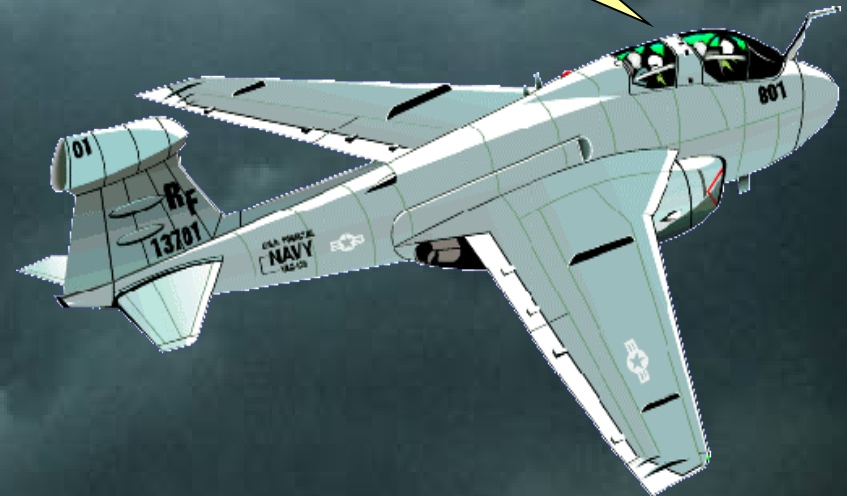
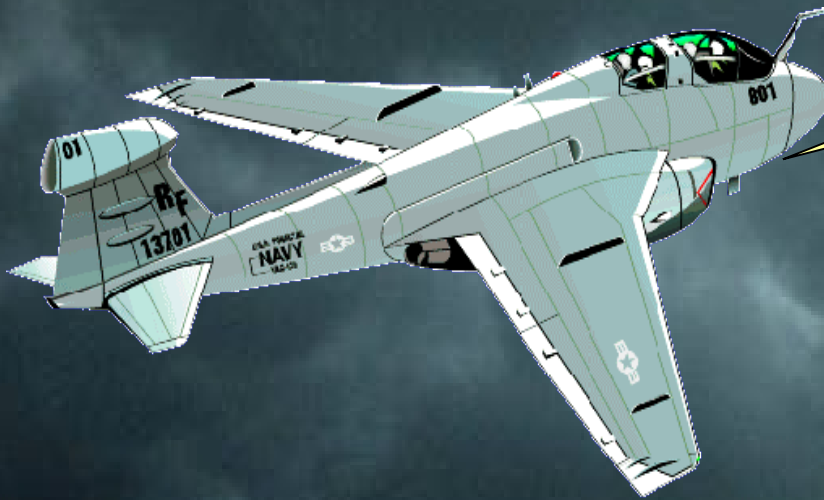
Electromagnetic Interference (VAQ-138

HAZREP 03-03;

DTG 110155Z MAR 03)

You copy that
last call?

What call?



Fleet EMI Issues

- F/A-18 LATR/ARC-210
- H-60 Chinook/Cargo Hook/ELT
- EA-6B/P-3 P-Static

1981 Total Problems
371 Open

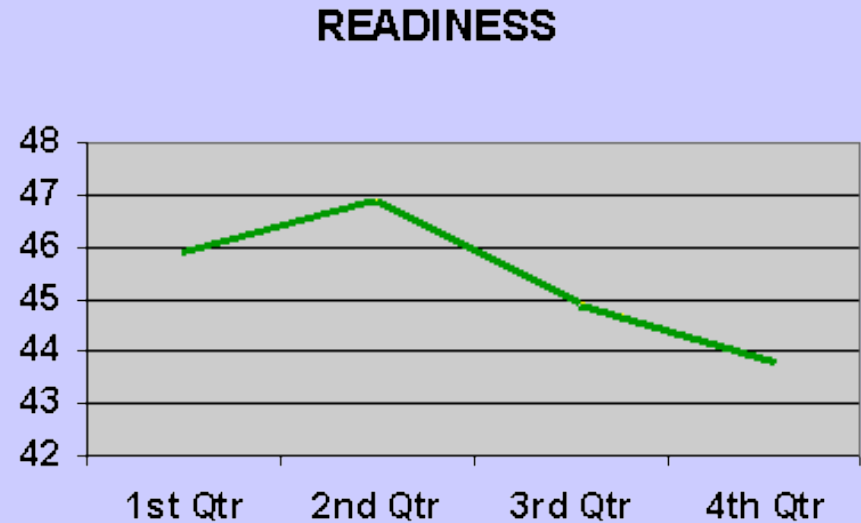
25 FLEET In Work



Electro-Static Discharge

ESD is present and does impact system performance, and ultimately readiness, in three significant ways:

- Reduced Readiness/Avail
- Unnecessary



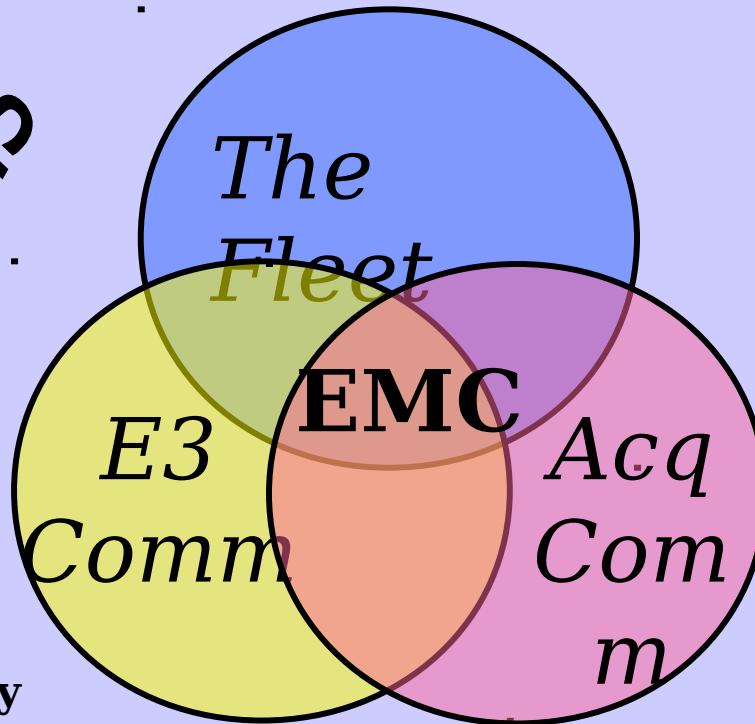
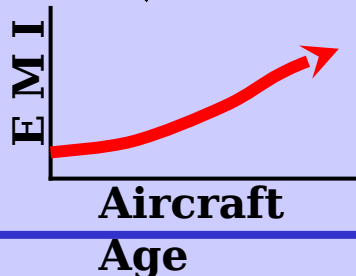
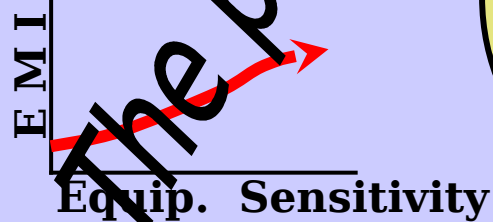
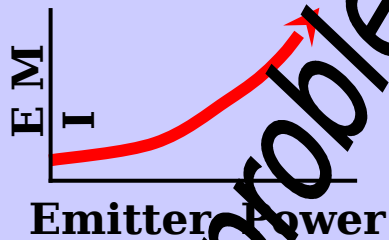
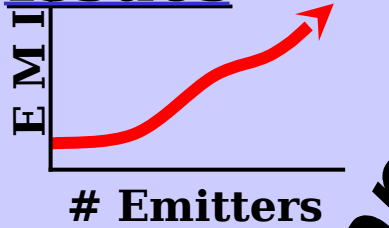
Fleet ESD Issues

- Electrostatic Discharge Sensitive (ESDS) listings
- Maintenance Requirement Card (MRC) deletions
-

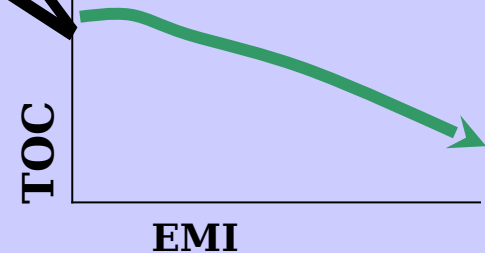
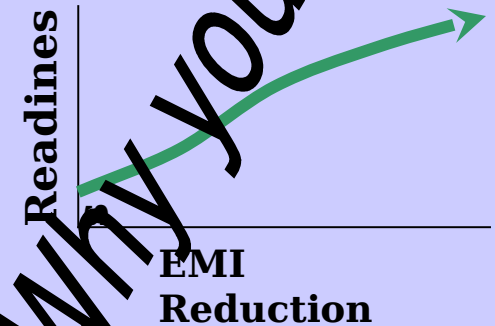
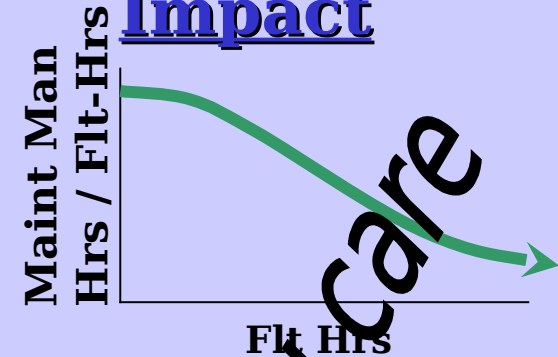


FLEET EMC "CLIMATE"

Systemic Issues



EMC Impact



The Defense - A Formal E³ Program

- AIR 4.1.7
- AIR 5.1.7
- ASEMICAP
- FLEET E³
Awareness



ASEMICAP = Fleet Support

A two-fold mission:

1. Direct engineering/technical support to resolve Fleet E³ issues.
2. Improved Fleet E³ awareness of Navy and Marine Corps Aviation Activities.

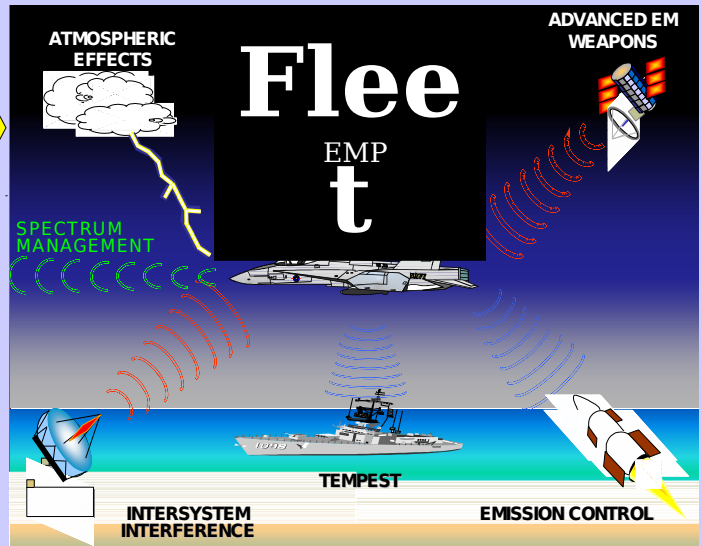
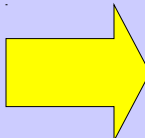


OPNAV
NAVSEA
SPAWAR
JSC
TYCOMs
Safety Center
FCC
FAA
JPO's
Joint Staff
NTIA



NAVAIR Acquisition/T & E

- AIR 417 - E³ Systems Engineers
- AIR 517 - E³ Test & Evaluation
- Program Offices / IPTs
- Air / Ship Integration



Feedback
Aircraft / System Manufacturers

Air Systems EMI Corrective Action Program

Fleet Support Specialists (FSS)

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Now let me get this straight....
You're from NAVAIR and you're here to help.
SO WHAT!



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The Rub - Fleet E³ Awareness

Increased supervisory and deck-plate awareness directly leads to improved aircraft and system performance.

This directly translates to improved performance,



Support Services

- ✓ Direct Engineering Support
- ✓ Problem Management System
- ✓ E³ Awareness Presentations
- ✓ Web Site

ASEMICAP Home page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address

Google Search Web Search Site News

Links Feedback

Fleet Community
E3 Community
Login Request
Enter a Problem

ASEMICAP
NAVAL AIR SYSTEMS COMMAND

Electromagnetic Interference Corrective Action Program (ASEMICAP). ASEMICAP is the Naval Air Systems Command (NAVAIR) Program dedicated to reducing and controlling EMI in the Fleet. The ASEMICAP team provides engineering and technical support directly to Fleet units to resolve EMI problems and represents Fleet interests within the acquisition community. ASEMICAP ensures the Electromagnetic Environmental Effects (E3) hardness of operational aircraft systems, subsystems, and equipment throughout their life-cycles.

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Direct Engineering Support

Respond, identify, and mitigate Fleet SOO & MC EMI problems.

Onsite technical assistance for E³ issues and OPNAV 4790/ NAVAIR 2450 series compliance.

Access to NAVAIR Engineering support and platform-specific expertise.



Problem Management System

Web-based data mgmt tool for collection and processing of E³ issues.

Easily sorted by T/M/S or locate by keyword.

Not a registered user? Info is readily available to you.

The screenshot shows the ASEMICAP web application running in Microsoft Internet Explorer. The browser's address bar displays the URL: <https://www.asemicap.net/Information/index.cfm?fuseaction=information.emisearch&CFID=253929&CFTOKEN=99739872>. The page features a header with the Navy Marine Corps Intranet logo and the title "AMITS EMI Problem Sheet". Below the header is a navigation menu with links: "Report an EMI Problem", "Search an EMI Problem", "ESD Sensitive Equip", "Lab Test Results", "Discussion Forum", "Team Members", "Glossary", "Links", and "Library". The main content area is titled "Data Search Page" and contains instructions for searching EMI-related problems. It lists search parameters: Keyword, aircraft type model, and series, BuNo, victim system type, victim system name, source system type, source system name, deficiency category, status, date range or any combination of these search parameters. It also notes that multiple values may be selected for aircraft type, model, and series, victim system type, victim system name, source system type, source system name, deficiency category, and status, and that the Control (CTRL) Key can be used for selecting additional criteria. The search form includes input fields for "Key Word:", "Problem ID Number:", and "Aircraft BUNO Number:". It also has dropdown menus for "Aircraft Model:" (with options: AV-8, C-12, C-130, C-2), "Aircraft Series:" (with options: AH-1W, AV-8B, C-12), and "Victim System Type:" (with options: AIRFRAME, ALARM, ALO). The Windows taskbar at the bottom shows the Start button, several open applications including "Inbox - Microsoft Ou...", "Briefs", "Microsoft PowerPoint...", and "ASEMICAP - Micro...", and the system clock showing 9:33.

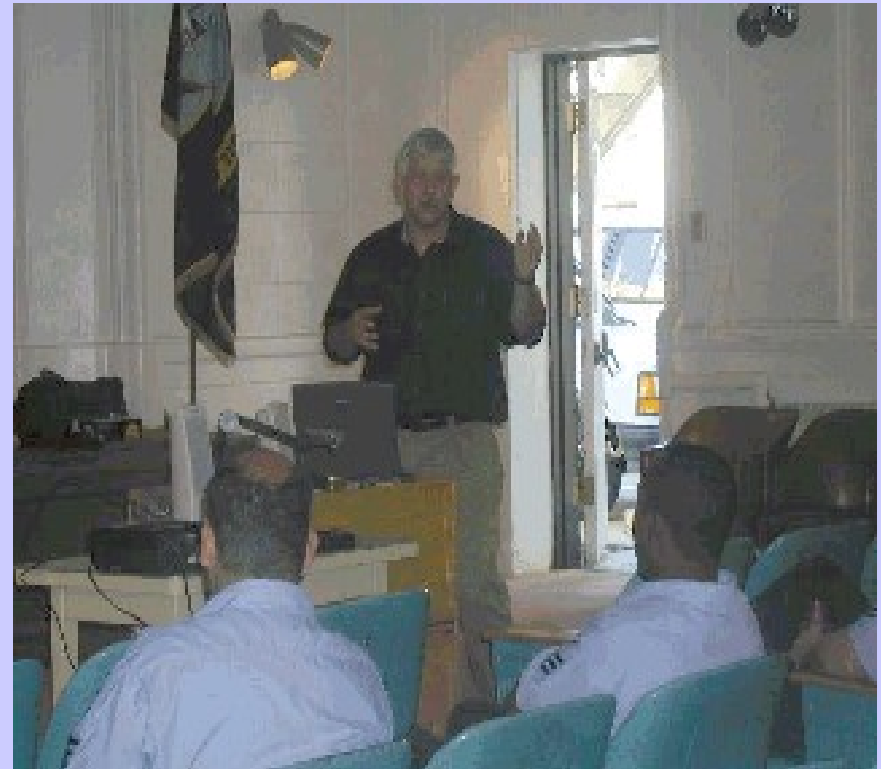


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E³ Awareness Presentations

TYCOM-supported
deckplate training
provided by former
Fleet personnel with
Naval Aviation
maintenance and E³
experience.

Training available
includes ESD, EMI, P-
static, & Cockpit
EMI



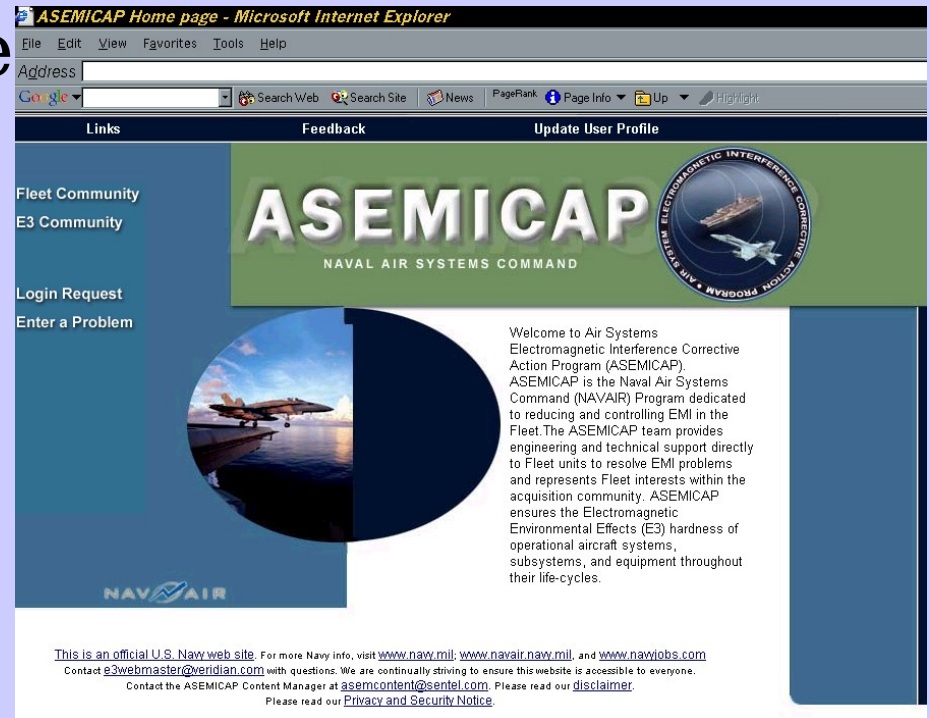
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WWW.ASEMICAP.NET

24/7 access to E³-related information and support.

Highlights:

- Problem database
- E³ awareness materials
- ASEMICAP Newsletter
- Support



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Ok, I'm listenin' ...
what's the bottom line?



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Summary

- Electromagnetic environmental effects occur and DO have a very real operational impact.
- Negative effects CAN be mitigated in most cases.
- ASEMICAP is the Fleet's resource for E3 support.
- **YOU are the key!!**



Questions?



ASEMICAP FLEET SUPPORT SPECIALISTS



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